



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
ALONZO W. BEASLEY, JR.

Serial No: 10/684,639

Examiner: Singh, Arti R.

Filed: October 14, 2003

Art Unit: 1771

Title: MOTOR VEHICLE AIRBAG AND
FABRIC FOR USE IN SAME

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR 1.131

Dear Commissioner:

I, the individual whose signature appears below, do hereby declare that:

1. I am an officer of Safety Components Fabric Technologies, Inc., owner of the above patent application by virtue of written assignment from the inventor.

2. This application was filed on October 14, 2003, but claims the benefit of application Serial No. 09/558,766, filed April 26, 2000.

3. I have been advised that all claims of the application have been rejected as being unpatentable over the disclosure of U.S. Patent No. 6,455,449 to Veiga et al. issued on September 24, 2002, and filed on September 3, 1999.

4. The present invention resides in the discovery that urethane-coated airbag fabrics may include a base fabric made from finer denier yarns of alternating deniers which produces a crest and trough pattern on the surface that enhances urethane adhesion.

5. As supported by the factual evidence submitted herewith, the claimed invention was conceived and, on information and belief, was reduced to practice prior to September 3, 1999.

BEST AVAILABLE COPY

6. The originals of Exhibits A through C discussed hereinafter in detail were all prepared prior to September 3, 1999. Actual dates and prospective customer name have been deleted.

7. As evidenced by Exhibit A, a base fabric of 315d warp and alternating fill of 315d and 210d denier was prepared. This fabric was designated style 4934. The first two pages of Exhibit A make up the request from the inventor for a sample of this fabric. Note that the "endues" of the fabric is indicated to be "airbag." The third page of Exhibit A is a "Sample Specification" for this fabric. The fourth page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit A.

8. Exhibit B indicates that another sample of style 4934 was prepared. This base fabric also had 315d warp and alternating fill of 315d and 210d denier. The first page of Exhibit B is a "Sample Specification" for this fabric. The third page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit B.

9. As evidenced by Exhibit C, a base fabric of 420d warp and alternating fill of 420d and 315d denier was prepared. This fabric, designated style 4951, was requested by the document making up the first two pages of Exhibit C. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit C.

10. A style 4934 base fabric was sent to the prospective customer (a coater), whereupon a urethane coating was applied. Satisfactory adhesion levels were reported.

11. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

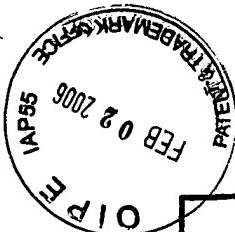
SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC.

Signed: ✓ Stephen B. Durk

Name: ✓ Stephen B. Durk

Title: ✓ President

Date: ✓ 1-31-05



PTO/SB/68 (08-04)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Alonzo W. Beasley, Jr.Application No./Serial No.: 10/684,639 Filed/Issue Date: October 14, 2003Entitled: Motor Vehicle Air Bag and Fabric for Use in Same

Safety Components Fabric Technologies, Inc. corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

In the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 010758, Frame 0187 or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below.

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____ or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____ or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____ or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

✓ Stephen B. Duerk✓ 1-31-05

Signature

Date

✓ Stephen B. Duerk✓ 864-240-3678

Printed or Typed Name

Telephone Number

✓ President

Title

This collection of information is required by 37 CFR 3.73(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-6199 and select option 2.

EXHIBIT A

Busin

PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE _____

I. MARKETING

CUSTOMER: _____

CUST. S/# _____

C/R# 18-387

SCFTI S/#: 4934-02 WEAVE: Plain ENDUSE: Air LEVEL 4

GR. (MIN/NOM.)	FIN. (MIN./NOM.)	YES	NO
ENDS/IN: <u>55</u>	<u>6.0</u>	<input checked="" type="checkbox"/>	_____
PICKS/IN: <u>64</u> 60 ⁵⁴ Back	<u>63-65</u>	<input type="checkbox"/>	_____
WIDTH: <u>75-76</u>	<u>69.5-70.5</u>	<input type="checkbox"/>	_____

WARP: 315 / 144 / T-447 AK20 OLD/NEW

FILL: 315 / 144 / T-447 AK20 (All Both) (PICK* PICK) ⁴⁴³ OLD/NEW
210/68/R-30 Dv120 Nylon

SCFTI PROCESS:

GREIGE	CUT LENGTH RANGE	<u>500 yds.</u>
HEATSET IN THE GR.	MIN PC. LENGTH	<u>200</u>
SCOUR & HEATSET	SPICES ALLOWED	<u>yds.</u>
APPLY & FINISH	PACKAGING	<u>In Roll</u>

DESCRIBE FINISH: _____ FINISH CODE: 9036

CIM RANGE: 1/4 CUST. SPEC #: TOD. DATED: _____
COPY OF CUST. SPEC ATTACHED _____ (TEST REQ. Y/N) (CERT REQ Y/N)
DEPT#:

II. TECHNICAL

TYPE LOOM: Dornier MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: n/a
YARDS PER BEAM: 110 (WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM: REED WIDTH: 41.2 SLEY: 520 OFF LM PICKS: 640 -

WARP: 315 / 144 / T-447 AK20

FILLING: 315 / 144 / T-447 AK20 ^{PICK* PICK}
WARP YDS/LB: 14.50 FILLING YDS/LB: 14.50 = 315 lb / 3150 = 210 dms.

EST. WARP CONTRACTION: 1%

REMARKS: sample fact -

SIGNATURE: _____ DATE: _____

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION	WEAVING	FINISHING	FINAL	TESTING
WINDING	<u>DORNIER</u>	BATCH	SLIT	INTERNAL
TWISTING (IN/OUT)	<u>SULZER</u>	SCOUR JIG/CONT.	<u>INSPECT</u>	CUST. LOT
WARPING (IN/OUT)		CAN DRY	<u>PACK</u>	NONSTD.
(BLOCK/TRANS.)		CONTACT HT SET SHIP		PEAF
BEAMING/SLASHING		CALENDER/TENTER		ANNUAL
				QUAL.

III. ENGINEERING

LOOMS/WEAVER: _____ OTHER: _____

IV. COST DEPARTMENT

DATE FWDED: _____

YDS/LOOM 120 HRS.	TARGET CONTRIBUTION LOOM/WK	FAB. WT.	OZ./SQ. YD.
_____	_____ YD _____	_____	_____
COST: VAR./YD: _____	FX/YD: _____ B/E/YD: _____	MIN. YD: _____	TAR. YD: _____

YARN PRICE: WARP: FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

- A. *has adhesion pattern with low tension off loom*
630 dt
- B. Run this as Pattern 02.
- C. Pick insertion should be 1/1 and 1/2 of two filling yarns. See Draft.
- D. Low tension on warp yarn.
- E. This is caul only

SUBMITTED BY L. Bandy DATE: _____APPROVED BY MARKETING MGR. Tom Bandy Jr. AB Bank DATE: _____APPROVED BY DIR. TECH. SVCS K. Bates DATE: _____REJ. APPROV. TECH. SERV. MGR. K. Bates DATE: _____APPROVED BY MFG. REF. COMM. K. Bates DATE: _____FORWARD TO: _____ OR _____ CC: J. ANDERSON S. DUERK
J. UNDERWOOD D. HARVELL

**SAFETY COMPR. NETS FABRIC
TECHNOLOGIES, INC.**

**STYLE M VR LISTING
Sample Specification**

PAGE:

Style:	M4934-0002-9026	Level:	IV	Description:	315.210 .60 x 64 Low Warp tension 6 harness and 6 banks of drop wires, 71% air space reed Dupont t-6.6 nylon Plain PICK AND PICK WITH 2 FILLING YARNS	Status:	ACT				
Fabric:		U/M:	YD	Department no:	10						
Warp:		Product code:	89								
Warp:		Locn type:	Dormier general								
Warp:		Primary customer:	/ VARIOUS								
Warp:		Requested by:	L. BEASLEY								
Face:											
Warp out (yds):	500	Neave picks/inch:	64.00	Road width:	81.23						
Edges:		Heat slit at locn:		Dents/inch:	26.000						
Type size:		BP-44C-48 SOLIDS IN SIZES BOX,18 STRINGS OR SOLID	Rods/dent:	2							
Other:		1 end 420/68 dk.Blue sylon 24 ends drop lett side at slasher	Flex count:	62.000							
Warp yarn code:	M4934-538	Supplier:	ACORDIS INDUSTRIAL FIBERS	No. ends:	4,224						
Description:	315/144 T-447 HTR-8 Acordis Scottsboro Nylon										
Twist:	Airbag Beans										
Merge:	None										
Fill yarn code:	M4934-539	Supplier:	ACORDIS INDUSTRIAL FIBERS	Hold code:	02						
Description:	315/144 T-447 HTR-8 Acordis Scottsboro Nylon			Putup code:	11 Roll Goods						
Twist:	Airbag Tubes			Tare wt.:							
Merge:	None			CMS code:							
<hr/>											
Packaging:	See final inspection instructions										
Ordering:	See final inspection instructions										
Purpose:	nylon coating fabric (air bag)										
Tube size:	See final inspection instructions										
Comments:	As c/r #10-387 var. M4934-01										
Std wt (yds/lb):	1.59	Width (in):	75.50	Target:	76.00	Min:	69.50	Max:	70.50	Target:	70.00
Weight (lbs/yd):	0.628	Count (W x P):	54 x 63	Stretch (in):	55 x 64	Count (W x P):	58 x 62	Stretch (in):	63 x 66	Count (W x P):	60 x 64
Allow dev %:	3.00	Wt (oz/yrd):	4.71	Flex:	4.71	Wt (oz/yrd):	4.93	Flex:	4.93	Wt (oz/yrd):	4.93
<hr/>									Current surv:	000	
FILLING YARN #2									Revision date:	01/25/1999	
M4934-210/68 R20 T-729 TUBES FROM DURONT									By:	TK	
original											

WARPING ORDER

F-1017 11/96

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-2

TYPE CLOTH: NYLON COATING AIR BAGS

DATE: _____

NO. BEAMS:	REED SPREAD:	DENT REED:	ENDS DENT:	TOTAL DENTS:	SLEY:	SHAFTS:
1	81.23"	26.00	2	2156"	.52.00	8
DRAW: STRAIGHT WEAVE: PLAIN BODY ENDS: 4224			EST % CONT: 8%	TYPE LOOM: DORNIER SELV ENDS: 1	DIST. BTWN BM. HEAD: 81.75"	
DEPT.: 10					TOTAL ENDS: 4225	
					WEIGHT PER YARD: .0001	
SELVAGE: " 1 END 420/88 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM						

FILLING A: 315/144/T-447 AKZO SCOTTSBORO NYLON PICKS: 32 WT/YD: .1959
(14,160)

FILLING B: 210/88/R-20 DUPONT NYLON PICKS: 32 WT/YD: .1305
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD, LENO, ETC. (21,250)

FILLING C: PICKS: WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: " ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: WT/YD: _____
EDGE AT SLASHER NO. ENDS: WT/YD: _____

WARP C: NO. ENDS: WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED ELSEWHERE:

12 - BMS ① 0 362 0 BMS ① SELV. BODY A SELV.

- BMS ① SELV. BODY A SELV. BMS ① SELV. BODY SELV.

- BMS ① SELV. BODY SELV. BMS ① SELV. BODY SELV.

FOR HEADEND TICKET:
GREIGE EST. ACT.%
WIDTH WEIGHT CONT GROUND COUNT OVERALL COUNT:

ISSUED BY: FRANCISCO BEDOYA DATE: _____

D-10, BURTON, REESE, HALEY, HAVER, B.JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN

D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3)

D-10

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

CERTIFICATE OF CONFORMANCE

315/210

MATERIAL: 84934-02-9025	LOT: 20699	TEST DATE:	SPECIFICATION: TBD		
Piece No. Sample No.	8661T		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE HAMP	427	0	0	Min:	Pounds
	389	0	0	Min:	Pounds
ELONGATION HAMP	42	0	0	Min: Max:	Percent
	44	0	0	Min: Max:	Percent
TONGUE TEAR HAMP	27	0	0	Min:	Pounds
	26	0	0	Min:	Pounds
TRAPEZOID TEAR HAMP	0	0	0	Min:	Pounds
	0	0	0	Min:	Pounds
SHRINKAGE HAMP	1.56	0.00	0.00	Max:	Percent
	0.00	0.00	0.00	Max:	Percent
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN
DOB				Max:	Percent
RIAS				Max:	Percent
WEIGHT	5.14	0.00	0.00	Min: Max:	oz/MIN
WIDTH	70.0	0.0	0.0	Min: Max:	INCHES
ENDS	59.4	0.0	0.0	Min: Max:	PPI
PICKS	63.4	0.0	0.0	Min: Max:	PPI
BODY THICKNESS	.010	0.000	0.000	Min: Max:	Inches
DYNAMIC AIR PERM ADAP				Min: Max:	m/sec
				Min: Max:	T.B.D.
EXPONENT				Min: Max:	T.B.D.

Material: W4934-02-9026

Lot: 20699

Page 2 of 2

Piece No. Sample No.	66617			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MILLION BURST NET				Min:	PSI	ASTM-D-3786
pH	7.5			Min: Max:	pH units	PTM 191
EXTRACTABLES (*)	.2			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AATCC CHECK UNITS	JPS 701
AIR PERMEABILITY	0.00	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS HARD	0.0	0.0	0.0	Min: Max:	MG/CN2	ASTM-D-4032
	0.0	0.0	0.0	Min: Max:	MG/CN2	ASTM-D-4032
CIRCULAR RING HARD	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032
	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT H. HOLCOMBE LAB DIRECTOR
(864) 240-2624

P-1068 (5/96)

[MC-2021]

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE
PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

EXHIBIT B

PEPPY COMPAC Y72 FABRIC
TERROLOGIES, INC.

STYLE W FOR LISTING
Sample Specification

Type: W4934-0001-9026

Level: IV

Description:	315 60 x 64 Accordis Low Warp tension 8 harness and 6 banks of drop wires. 71% air space read	U/N:	TD	Status:	ACT
Abril:	Dupont E-6-E nylon	Department no:	10	Product code:	89 Hitting - driver uncoated
base:	Plain	Item type:	Dornier general	Primary customer:	
Leave:	LEAVE 3 loops	Requested by:	L. BEASLEY		
size:		Need width:	61.23		
size cut (yds):	200	Denier/inch:	26.000		
edges:	Neat slit at loom	Ends/inch:	2		
type size:	BP-44C-40 SOLIDS IN SIZE BOX, 16 STRETCH ON BLASTING	Slay count:	52.000		
other:	1 end 420/68 dt. blue nylon 24 ends from left side at slasher	No. ends:	4,224		
arp yarn code:	R4931538	Supplier:	ACORDIS INDUSTRIAL FIBERS		
Description:	315/144 T-447 HERT-4 Accordis Scottsboro Nylon				
list:	Airbag Seats				
args:	None				
list 1 yarn code:	R4931539	Supplier:	ACORDIS INDUSTRIAL FIBERS		
Description:	315/144 T-447 HERT-4 Accordis Scottsboro Nylon				
list:	Airbag Tubes				
args:	None				
ackaging:	See final inspection instructions	Hold code:	02		
rating:	See final inspection instructions	Pulling code:	11 Roll Goods		
purpose:	nylon coating fabric (air bag)	Zero st:			
use size:	See final inspection instructions	CNS code:			
Comments:	All as of 8/10/97 as W4934-02	Current rev:	.000		
		Revision date:	08/10/1999	By:	TK
				Original	
td wt (yds/1lb):	1.69	Width (in):	75.50	Target:	70.50
eight (lbs/yd):	0.628	Count (W x H):	54 x 63	Mkt (in):	69.50
low dev %:	3.00	Wt (oz/yrd):	4.71	Count (W x H):	62 x 66
				Wt (oz/yrd):	60 x 64
					4.93
					4.93

WARPING ORDER

F-1017 11/86

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-3

TYPE CLOTH: NYLON COATING AIR BAGS

DATE: _____

NO. BEAMS:	REED SPREAD:	DENT REED:	ENDS DENT:	TOTAL DENTS:	SLEY:	SHAFTS:
1	81.23"	26.00	2	2158"	52.00	8

DRAW: STRAIGHT	WEAVE: PLAIN	EST % CONT: 8%	TYPE LOOM: DORNIER	DIST. BTWN BM. HEAD: 81.75"
BODY			SELV	TOTAL
DEPT.: 10	ENDS: 4224		ENDS: 1	ENDS: 4225

SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM

WEIGHT

PER YARD: .0001

FILLING A:	315/144/T-447 AKZO SCOTTSBORO NYLON	PICKS: 32	WT/YD: .1659
		(14,150)	

FILLING B:	210/72/R-20 ACORDIS 100% T-447 HRT FROM AKZO	PICKS: 32	WT/YD: .1305
	*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD, LENO, ETC.	(21,250)	

FILLING C:		PICKS: _____	WT/YD: _____
------------	--	--------------	--------------

WARP A:	315/144/T-447 AKZO SCOTTSBORO NYLON	NO. ENDS: 4224	WT/YD: .3245
	NO TINT - NO CUT MARKS	(14,150)	

WARP B:	** ADDED AT SLASHER 24 ENDS FROM LEFT	NO. ENDS: _____	WT/YD: _____
	EDGE AT SLASHER		

WARP C:		NO. ENDS: _____	WT/YD: _____
---------	--	-----------------	--------------

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW:

AIR BAG

12 - BMS ②	0 352 0
SELV. BODY A SELV.	

- BMS ②	SELV. BODY SELV.
---------	----------------------------

- BMS ②	SELV. BODY A SELV.
---------	------------------------------

- BMS ②	SELV. BODY SELV.
---------	----------------------------

- BMS ②	SELV. BODY SELV.
---------	----------------------------

- BMS ②	SELV. BODY SELV.
---------	----------------------------

FOR HEADEND TICKET:

GREIGE WIDTH	EST. WEIGHT	ACT.% CONT	GROUND COUNT	OVERALL COUNT:
-----------------	----------------	---------------	-----------------	-------------------

ISSUED BY: FRANCISCO BEDOYA hansen DATE:cc: BEASLEY, BURTON, REESE, HALEY, HAVER, B. JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

CERTIFICATE OF CONFORMANCE

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

INFORMATION ONLY

MATERIAL: W4934-03-9026

LOT: 21138

TEST DATE:

SPECIFICATION: TED

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	450	442	0	Min:	Pounds	ASTM-D-5034
	379	389	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	38	38	0	Min: Max:	Percent	ASTM-D-5034
	39%	40%	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	28	27	0	Min:	Pounds	ASTM-D-2261
	27	27	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.56	1.56	0.00	Max:	Percent	1 HR @ 300°F
	.31	.31	0.00	Max:	Percent	1 HR @ 300°F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/OUT	FMVSS-302
BOW	.31	.50		Max:	Percent	
BIAST	.75	.75		Max:	Percent	
WEIGHT	5.02	4.99	0.00	Min: Max:	OZ/ID2	ASTM-D-3776
WIDTH	70.5	71.0	0.0	Min: Max:	INCHES	ASTM-D-3774
ENDS	58.3	58.3	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	62.6	62.5	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.010	.010	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	m/sec	T.B.D.
				Min: Max:		T.B.D.
EXPOSURE						

Material: W4934-03-9026

Lot: 21138

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLER BURST TEST				Min:	PSI	ASTM-D-3786
pH	7.1	6.8		Min: Max:	pH units	FIM 191
REFRACTABLES (%)	.5	.6		Max:	Percent	JPS 701
DYE STAIN	5	5		Min: 4	AARCC CROCK UNITS	JPS 701
AIR PERMEABILITY	2.04	2.00	0.00	Min: Max:	CPM	ASTM-D-737
CANTILEVER STIFFNESS HARD	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND HARD	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032
	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

F-1065 (5/96) [WY-2021]

ROBERT M. WELCHES LAB DIRECTOR
(864) 240-2624THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE
PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

EXHIBIT C

PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE _____

I. MARKETING

CUSTOMER: _____

CUST. S/# _____

C/R# 10-386

SCFTI S/#: _____

28355

WEAVE: Plain

ENDUSE: Fibre

LEVEL 4

GR. (MIN/NOM.)

FIN. (MIN./NOM.)

YES

NO

ENDS/IN: 41-43

44-

WARP SIZE OK

PICKS/IN: 48-50

49

SPUN YARN TINT

WIDTH: 69.5-72.5

63-66

HI. TEN REQD

WARP: 420/68/R20 Nylon Dupont T743 (

OLD/NEW

FILL: 420/68/1220 Nylon Dupont T743 (1/2) (per pc)

OLD/NEW

315/96/R20 Nylon Dupont T729 (1/2)

SCFTI PROCESS:

GREIGE

CUT LENGTH RANGE

500

HEATSET IN THE GR.

200

SCOUR & HEATSET

300

APPLY & FINISH

MIN PC. LENGTH

100

SPLICES ALLOWED

100

PACKAGING

100

Wrapped in clear plastic

100

FINISH CODE: 9024

DESCRIBE FINISH: _____

CFM RANGE: NA

CUST. SPEC # T8D

DATED: _____

COPY OF CUST. SPEC ATTACHED

(TEST REQ. Y/N)

(CERT REQ Y/N)

DEPT #: 10

II. TECHNICAL

TYPE LOOM: Downside MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: 4/1
(WARP IN PLANT & NEW YARNS ONLY)

YARDS PER BEAM: 5000

CONST. IN LOOM: REED WIDTH: 74.60" SLEY: 40.0 OFF LM PICKS: 490

WARP: 420/68/R20 Nylon Dupont T-743

FILLING: 315/96/1220 Nylon Dupont T-729 Pick and piece

WARP YDS/LB: 4600 FILLING YDS/LB: 4600 : 4207 : 1440 : 315

EST. WARP CONTRACTION: 8%

REMARKS: sample part

SIGNATURE: _____

Rami DATE: 5-21-89

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION

WEAVING

FINISHING

FINAL

TESTING

WINDING

CORNIER

BATCH

SLIT

INTERNAL

TWISTING (IN/OUT)

SULZER

SCOUR - JIG/CONT.

INSPECT

CUST. LOT

WARPING (IN/OUT)

CAN DRY

PACK

NONSTD.

(BLOCK/TRANS.)

CONTACT HT SET SHIP

PPAP

BEAMING/SLASHING

CALENDER/TENTER

ANNUAL

QUAL.

III. ENGINEERING
LOOMS/WEAVER: _____ OTHER: _____ DATE FWDDED: _____

IV. COST DEPARTMENT

YDS/LOOM TARGET CONTRIBUTION FAB. WT. OZ./SQ. YD.
120 HRS. LOOM/WK YD _____
COST: EX/YD: B/E/YD: MIN. YD: TAR. YD: _____
VAR./YD: _____

YARN PRICE: WARP: FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

- A) Unstated adhesion values below 630d are very low. Trial evaluation by making surface tension with two different deniers should provide better surface adhesion.
- B) If successful would rework in warp and fill.

SUBMITTED BY J. Anderson DATE: _____

APPROVED BY MARKETING MGR. L. Biff Jr. & S. Bush DATE: _____

APPROVED BY DIR. TECH. SVCS K. Bates DATE: _____

REJ. APPR. TECH. SERV. MGR. K. Bates DATE: _____

APPROVED BY MFG. REF. COMM. K. Bates DATE: _____

FORWARD TO: _____ OR: _____ CC: J. ANDERSON S. DUERK
J. UNDERWOOD D. HARVELL

CERTIFICATE OF CONFORMANCE

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

MATERIAL: W4951-01-9026

LOT: 20701

TEST DATE:

SPECIFICATION: TAD

PIECE NO. SAMPLE NO.	8619T		SPECIFICATION REQUIREMENT	UNIT OF MEASURE	TEST PROCEDURES
CRAB TENSILE WARP	430	0	0	Min:	Pounds
	424	0	0	Min:	Pounds
ELONGATION WARP	34	0	0	Min: Max:	Percent
	43	0	0	Min: Max:	Percent
TORSION TEAR WARP	47	0	0	Min:	Pounds
	41	0	0	Min:	Pounds
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds
	0	0	0	Min:	Pounds
SERKINAGE WARP	1.25	0.00	0.00	Max:	Percent
FILLING	0.00	0.00	0.00	Max:	Percent
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN
BOW	.56			Max:	Percent
BIAS	.50			Max:	Percent
WEIGHT	5.10	0.00	0.00	Min: Max:	OZ/YD ²
WIDTH	66.0	0.0	0.0	Min: Max:	INCHES
ENDS	44.5	0.0	0.0	Min: Max:	PPI
PICKS	48.3	0.0	0.0	Min: Max:	PPI
BODY THICKNESS	.012	0.000	0.000	Min: Max:	Inches
DYNAMIC AIR PERM ADAMP				Min: Max:	m/sec
				Min: Max:	T.B.D.
KIPOMENT				Min: Max:	T.B.D.

Material: W4951-01-9026

lot: 20701

Page 2 of 2

Piece No. Sample No.	Spec No.			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLEN BURST TEST				Min:	PSI	ASTM-D-3786
pH	7.0			Min: Max:	pH units	FTM 191
EXTRACTABLES (*)	.5			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AATCC CROCK UNITS	JPS 701
AIR PERMEABILITY	6.04	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS WARP	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND WARP	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032
FILL	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT H. WILCOX LAB DIRECTOR
(864) 240-2524

F-1063 (5/96) [WI-2021]

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